PROPORTINA, N.S.; VOYTKEVICH, S.A.; GEL'PERIN, N.I.; OGORODNIKOVA, Ye.A.: DUCHINSKAYA, Yu.I. Separating C₁₃ - C₁₇ tetrachloroalkanes from telomer mixtures. Trudy VNIISNUV no.5:85-92 '61. (MIRA 14:1 (MIRA 14:10) (Paraffins) (Polymers)

FRUMKINA, N.S.; ZELENETSKIY, N.N.; VOYTKEVICH, S.A.; GEL! PERIN, N.I. Separation of macrocyclic lactones by vacuum rectification.
Trudy VNIISNDV no.5:93-98 '61. (MIRA 14:10)
(Lactones) (Rectification) (MIRA 14:10)

KISELEVA, Ye.N.; GEL'FERIN, N.I.; SHESTAKOVA, V.A.; ZELENETSKIY, N.N.

Use of extraction by pairs of solvents for the purification of phenyl ethyl alcohol. VNIISNDV no.5:102-107 '61. (MIRA 14:10) (Phenethyl alcohol) (Extraction (Chemistry))

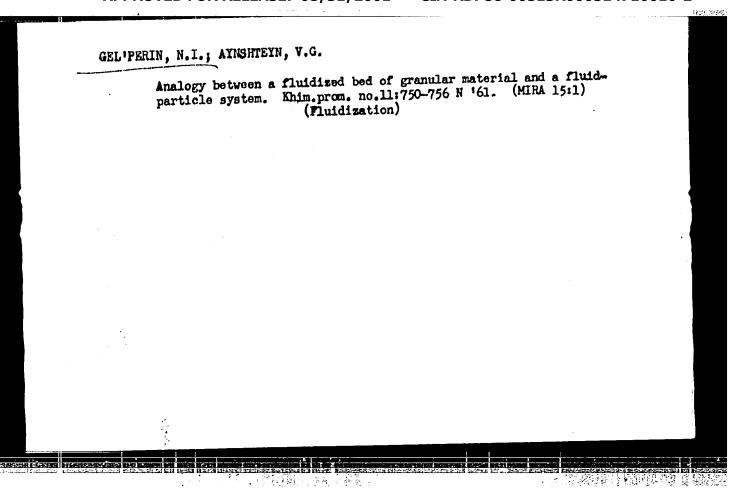
特別於 特別 翻譯 引导

KASHNIKOV, V.V.; VOYTKEVICH, S.A.; GEL'PERIN, N.I. Continuous method for manufacturing benzyl acetate. Trudy VNIISNDV no.5:107-110 '61. (MIRA 14 (MIRA 14:10) (Acetic acid)

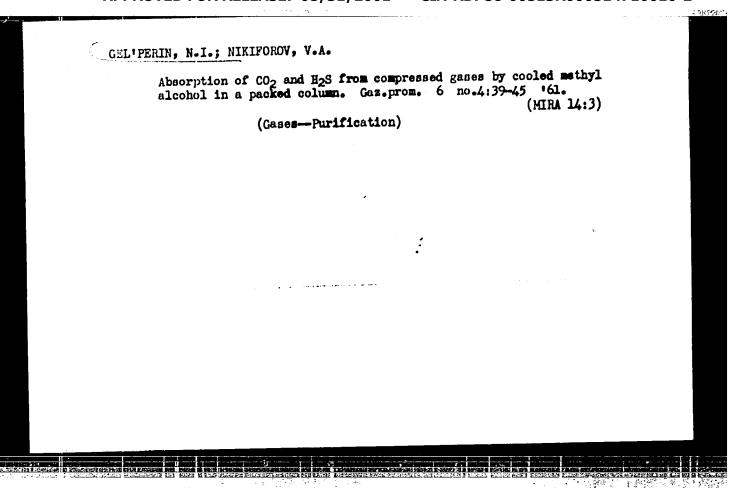
GEL'PERIN, N.I.; ASSAUS, M.G.

Nass transfer in injector extraction columns. Khim.prom. no.5:348-350
(MIRA 14:6)

(Extraction apparatus)
(Mass transfer)



	Determining and securing an optimum temperature field in chemical reactors. Khim.i tekh. topl.i masel 6 no.2:39-45 F '61. (MIRA 14:1)			
	Lomonosova.	(Chemical reaction, Heat of) engineering—Equipment and supp	ekhnologii im. M.V.	
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GEL'PERIN, N.I.; AYNSHTEYN, V.G.; RAD'KO, A.I.

Controlled proportioning feeder delivering finely divided materials to a fluidized bed. Zhur.VKHO 6 no.5:587-588 '61. (MIRA 14:10)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V.Lomonosova.

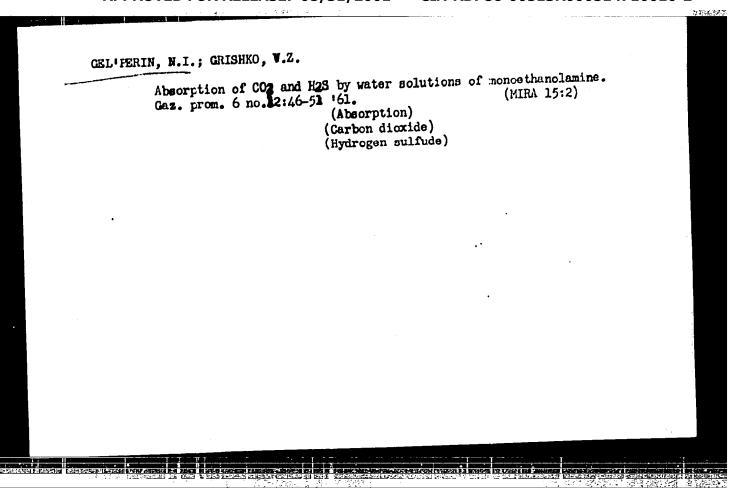
(Fluidization—Equipment and supplies)

GEL'PERIN, N.I.; GRISHKO, V.Z.

Using injector adsorption apparatus for removing carbon dioxide and hydrogen sulfide from gas minutures. Gaz. prom. 6 no.6:46-52 '61.

(Adsorption apparatus) (Gas)

(Adsorption apparatus) (Gas)



GEL'FEKIN, N.I.; AYNSHTEYN, V.G.; KLYUYEVA, L.M.

Determination of the specific gravity of ion exchange resins in a hydrated state. Zav.lab. 27 no.11:1375-1376 '61. (MIRA 14:10)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova. (Ion exchange resins)

KISELEVA, Ye.N.; GEL'PERIN, N.I.; SHESTAKOVA, V.A.

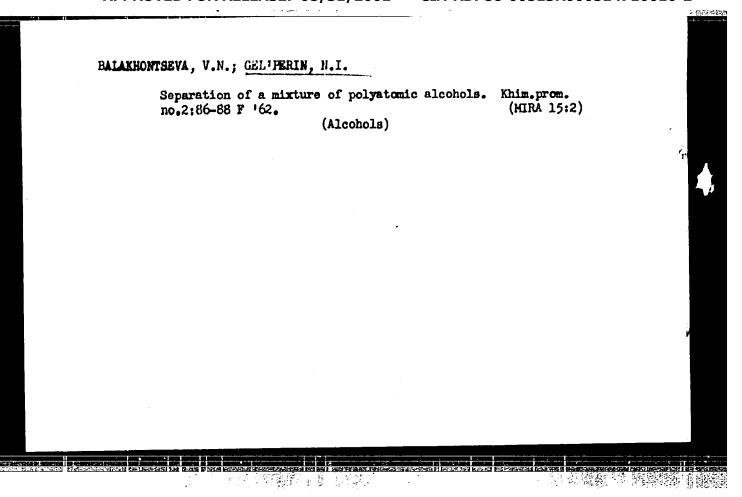
Removal of impurities from phenylethyl alcohol extraction with vapor solvents in an injection column. Zhur. prikl. khim. 34 no.1: 167-172 Ja '61.

(Phenethyl alcohol)

(Phenethyl alcohol)

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GEL'PERIN, N.I.; PERALK, V.L.; KUZNETSOVA, M.I.

Rotary extraction column with alternating mixing packing-free separation zones. Zhur.VKHO 7 no.1:114-115 '62. (MIRA 15:3)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova. (Extraction apparatus)

GEL PERIN, N.I.; AYNSHTEYN, V.G.

Effect of the size and specific gravity of solid particles on their coefficient of heat transfer toward gas in a gluidized bed. Khim. i tekh.topl.i masel 7 no.3:6-9 Mr 162. (MIRA 15:2)

1. Moskovskiy institut tonkoy khimicheskoy tekhnol M.V. Lomonosova.

(Muidization) Transmission)

S/080/62/035/003/007/024 D258/D302

AUTHORS: Gel'perin, N. I., Assmus, M. G., and Korovin, S. S.

TITLE: Recovery of gallium by the method of liquid extraction in a continuously operated injector column

PERIODICAL: Zhurnal Prikladnoy khimii, v. 35, no. 3, 1962, 516-519

TEXT: The authors investigated the continuous, liquid-liquid extraction of gallium from aqueous solutions of a copper-bearing residue obtained in the course of aluminum electro-refining. A solution containing Ga (0.48 g/l), H_2SO_4 (7.2 N), Cl^{-} (67.7 g/l) and also V, Al, SO_2^{-} , Fe, Mo, Cu and SiO_2 was brought up to a Cl^{-} content of 96.6 g/l and diluted until its H_2SO_4 concentration was 6 N. This solution and butyl acetate were injected, counter-currently and continuously, at the top and bottom, respectively, of a 900 mm column designed by N. I. Gel'perin and coworkers (Ref. 1: Khim. nauka i prom. 5, 560, (1956)). The gallium-bearing extract was continu-Card 1/2

Recovery of gallium ...

S/080/62/035/003/007/024 D258/D302

ously withdrawn near the top. Recovery of gallium varied slightly with the volume ratio of butyl acetate to aqueous solution, namely, from 96% at a ratio of 0.23 to 99.5% at 0.92. The increase in phase ratio was accompanied by a decrease in the Ga concentration in the extract - from 2.062% at the lowest mentioned ratio to 0.619% at the highest one; at the same time, Ga in the aqueous phase decreased from 0.014% to 0.005%. The withdrawal of samples at different points of the column showed an almost linear relationship of solvent concentration with column height. The same column was used for the re-extraction of Ga from butyl acetate by means of water; a complete recovery was achieved with a water/acetate ratio of 0.20. Adaptation to industrial plant scale was discussed. There are 3 figures, 2 tables and 3 Soviet-bloc references.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii

M. V. Lomonosova (The Moscow Institute of Fine Che-

mical Technology im. M. V. Lomonosov)

SUBMITTED:

July 11, 1960

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一个学习证明性的影響情報

GEL'PERIN, N.I., doktor tekhn.nauk; PEBALK, V.L., kand.tekhn.nauk; SHASHKOVA, M.N.

Horizontal multistage tube-still extractor. Khim.prom. no.6:427-433 Je '62. (MIRA 15:11)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova.

(Extraction apparatus)

Method for calculating the concentrations of dissolvable substances in a multistage countercurrent washing of precipitates. Khim.prom. no.9:601-603 Ag '62. (MIRA 15:9) (Chemistry, Technical) (Leaching)

GEL'PERIN, N.I., PODGAYETSKAYA, O.I., DUBININ, M.K.

Dryer with a fluidised bed for sebacic acid. Khim.prom. no.9:
(MIRA 15:11)
(89-690 S '62.
(Nizhnyi Tagil--Sebacic acid)

Thermal design of a pneumatic conveying tube. Khim.prom.
no.10:753-757 0 '62. (MiRA 15:12)
(Fluidisation—Equipment and supplies)

GEL! PERIN, N.I.; AYNSHTEYN, V.G.; ROMANOVA, N.A.

Hydraulics and heat transfer in a fluidised bed with an upright tube bundle. Khim.prom. no.11:781-788 N '62. (MIRA 16:2)

(Fluidisation—Equipment and supplies)

(Heat—Transmission)

CHIZHOV, Ye.B.; BLYUMBERG, E.A.; GEL'PERIN, N.I. Purification of acetic acid and the removal of formic acid from it.

Neftekhimia 2 no.5:771-775 S-0 '62. (MIRA 16:1) (MIRA 16:1) 1. Institut khimicheskoy fisiki AN SSSR. (Acetic acid) (Formic acid)

GELIFERIN, N.I., prof.; ZELIKSON, G.M.; RAPOPORT, L.L.; YANTOVSKIY,
S.A., red.; KOGAN, V.V., tekhn. red.

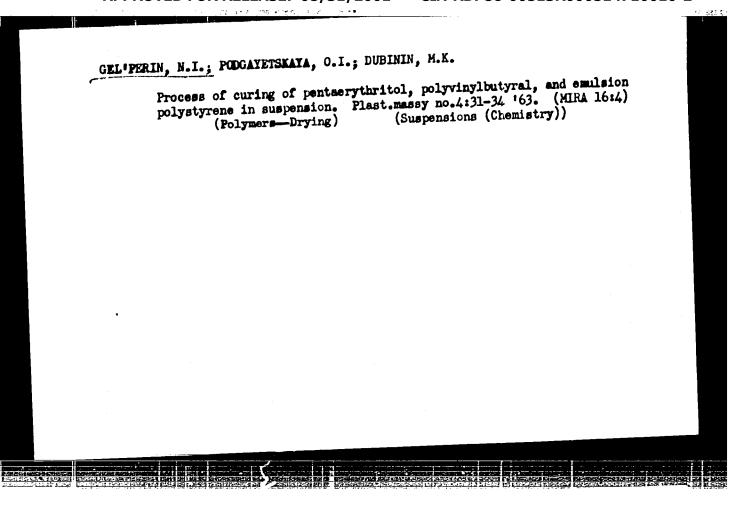
[Manual on the low-temperature separation of gas mixtures]
Spravochnik po razdelenitu gazovykh smesei metodom glubokogo
okhlazhdenia. Izd.2. perer. Pod obshchei red. N.I.Gol'perina.
okhlazhdenia. jed.3. 512 p. (MIRA 16:7)
(Gases-Separation)

GEL'PERIN, N.I.; PEBALK, V.L.; ROZOV, V.N.; ASSMUS, M.G.; MILOVAMOVA, I.B.

Extractive purification of nickel solutions from iron and copper impurities. TSvet.met. 36 no.2:37-42 F '63.

(Nickel--Electrometallurgy) (Electrolytes)

(Extraction (Chemistry))



(MIRA 16:1)

GEL! PERIN, N.I., doktor tekhn.nauk; KRUGLIKOV, V.Ya., kand.tekhn.nauk; KNUGLIKOV, V.Ya., kand.tekhn.nauk; Effect of the geometrical characteristics of a fluidised bed and of a surface of heat transmission on heat transfer between the bed and the surface placed into the bed. Nauch, sap.

Ukrniiproekta no.8123-33 162. (Heat-Transmission) (Fluidization)

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GEL'FERIN, N. I., doktor tekhn.nauk; KRUGLIKOV, V.Ya., kand.tekhn.nauk;

AINSHTEIN, V.G., kand.tekhn.nauk

Heat transfer between the fluidised bed and a single tube placed into the bed. Mauch.zap.Ukrniiproekta no.8134-47 '62.

(MNA 16:1)

(Fluidisation) (Heat—Transmission)

GEL'PHRIN, No. I.; IDEL'SON, Ye.M.; LIVSHITS, A.K.; BORISENKO, A.T.; ZIL BERG, V.I.

Improved method for the production of manthates. Report no.4: Preparing xanthates by the continuous method from isobutyl, butyl SK, and isopropyl alcohol. Sbor. nauch. trud. Gintsvetmeta no.19:255-262 '62. (MIRA 16:7)

(Xanthic acid)

GEL'PERIN, N.I.; PEBALK, V.L.; CHICHERINA, T.G.

Packed pulse columns for extraction. Khim. prom. no.2:111-115

F '63.

(Packed towers) (Extraction(Chemistry))
(Mass transfer)

ZAK, M.S., inzh.; LEYZEROVICH, C.Ya., kand.tekhn.nauk; GEL'PERIN, N.I., doktor tekhn.nauk, prof.

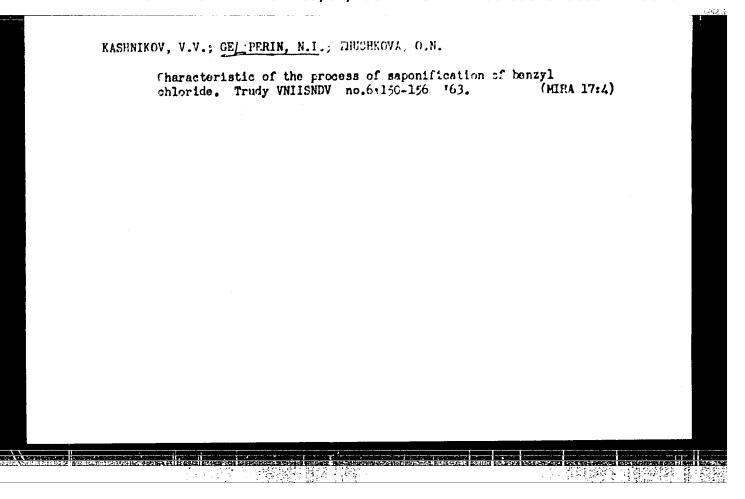
Study of a cold model of a double-chamber reactor for rossting in a fluidized bed. Khim.mashinostr. no.3:8-12 ky-Je '63. (MRA 16:11)

GEL'HIN, N.I., doktor tekhn.nauk, prof.; AYNSHTEYN, V.G., kand.tekhn.nauk;

KVASHA, V.B., kand.tekhn.nauk; KOGAN, A.S., inzh.; VIL'NITS, S.A., kand.tekhn.nauk

Apparatus for classifying free-flowing materials in a fluidized bed.

Khim.mashinoste. no.6:11-16 N-D '63. (MIRA 17:2)



GEL'PERIN, N.I.; PEEALK, V.L.

Galculation of the processes of rectification of binary mixtures in the y - x diagram. Khim. prom. no.6:440-445 Je '63.

(Distillation, Fractional)

(Plate towers)

Gel'Perin, N.I.; Dubinin. M.K.; Poblicatetherate, C. .

Continuous drying of free-flowing polymeric materials in a fluidized bed and in suspension. Wrim. prom. co.10:776-775 0 '65.

(MTRA 17:5)

GEL'FERIN, N.I.; AYNSHTEYN, V.G.; ROMANOVA, N.A.

Hydraulics and heat exchange in a fluidized bed with bundles of vertical pipes. Khim.prom. no.11:823-830 '63. (MIRA 17:4)

GEL'PERIN, N.I.; PEBALK, V.L.

Problem of the average driving force of countercurrent mass transfer processes. Zhur. VKHO 8 no.5:595-596 163. (MIRA 17:1)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova.

GEL PERIN, N.I.; PEBALK, V.L.; BARANOVA, Z.P.

Study of mass transfer in rotating disk extractors. Khim, i tekh, topl. i masel 8 no.6:46-52 Je '63. (MIRA 16:6)

1. Institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova.
(Extraction apparatus)
(Mass transfer)

GEL PERIN, N.I.; AYNSHTEYN, V.G.; ROMANOVA, N.A.

Method of determining the hydraulic resistance of a fluidized bed. Whim. i tekh. topl. i masel 8 no.9:16-20 S 163. (MIRA 16:11)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova.

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医囊体性结束 电电阻

19年的第三年的第三日,由于1982年

MILOSERDOV, P.N., inzh.; NAUMENKO, P.V., inzh.; GEL'PERIN, N.I., doktor tekhn.nauk

Distillation and rectification of synthetic fatty acids. Masl-zhir.prom. 29 no.11:16-22 N '63. (MIRA 16:12)

1. Volgodonskoy filial Vsesoyuznogo nauchno-issledovatel'skiy i proyektnyy institut sinteticheskikh zhirozameniteley (for Miloserdov). 2. Gosudarstvennyy komitet po pishchevoy promyshlennosti pri Gosplane SSSR (for Naumenko). 3. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V.Lomonosova (for Gel'perin).

GEL'PERIN, N.I.; ZELENETSKIY, N.N.

Regularities of the process of mass transfer during vacuum rectification in packed columns. Zhur. prikl. khim. 36 (MIRA 17:1)

no.11:2445-2456 N '63.

GEL PERIN, N. I.; PEBALK, V. L.; YURCHENKO, L. P.; ASSMUS, M. G.; BARCHOVA, Z. P.; SHASHKOVA, M. N.; CHICKERINA, T. G.; ZAMYSHLYAYEV, V. G.; CHEKHOMOV, Yu. K.; KUZNETSOVA, M. I.

"Investigations in the field of the technique of liquid extraction."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

Moscow Inst of Light Chemical Technology.

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在1900年,1900年中央共和国的特别的1900年,19

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RAZUMOV, Issy Moiseyevich; GEL*FFRIN, B.1., zenl. deystel* nauki i tekhniki doktor tekhn. nauk, prof., retserzent; TITSKAYA, B.F., ved. red. [Fluidization and pneumatic convoying of free-flowing

materials] Psevdoozhizhenie i pnevmaticheskli transport sypuchikh materialov. Moskva, Khimiia, 1964. 159 p. (MIA 17:9)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710010-2"

:导致性温度的想象[2] [2]

《日学集 可算数 等野域》。

GELIPERIN, N.I., doktor tekhn. nauk, prof.; AYNSHTEYN, V.G., kand. tekhn. nauk; GOYKHMAN, I.D., inzh.

Investigating the fluidization of granular materials in a field

Investigating the fluidization of granular materials in a field of centrifugal forces. Knim. i neft. mashinostr. no.1:13-16
Jl '64. (MIRA 17:12)

GEL'PERIN, N.I.; AYREHTEYN, V.G.; ROMANOVA, N.A.

Effect of the height of the heat exchanger surface on the coefficient of heat transfer in the fluidized bed. him. prom. no.2:101-104 F '64.

(KIRA 17:9)

GERTHERIN, H.1.; Westermann, S.A.; Prinimal accounting KRASIL'RIKOV, V.J.

Langitudinal mixing in a column extractor with vibrating plates.
Elim. prom. no.5:360-364 My 164 (MSRA 17:9)

GEL'PERIN, N.I.; AYNSHTEYN, V.G.

Two-phase theory of fluidization. Zhur. VKHO 9 no. 3:356 '64.

1. Moskovskiy institut tonkoy knimicheskoy tekhnologii imeni

(MIRA 17:9)

 Moskovskiy institut tonkoy knimicheskoy tekhnologii imeni Lomonosova.

MILOSERDOV, P.N., inzh.; GEL'PERIN, N.I., doktor tekhn.nauk Development of optimum conditions for the rectification of synthetic fatty acids. Report No.1. Masl.-zhir.prom. 30 no.3317422 F '64. (MIRA 17:3)

1. Volgodonskoy filial Vsesoyuznogo nauchno-iseledovatel skogo i proyektnogo instituta sinteticheskikh zhirozameniteley (for Miloserdov). 2. Institut tonkoy mimicheskoy tekhnologii imeni M.V.Lomonosova (for Gel'perin).

CIA-RDP86-00513R000514710010-2" APPROVED FOR RELEASE: 08/31/2001

EMPALEW, G.H., inch.; GEL/GERN, S.I., dektor tekhn. https://www.tekhn.tank/

Reat exchange between particles and the liquetylog agent in a fluidized heat. Hain. i neft. sushinostr. no.4:16-22 G 16...

(NEC 17:12)

EWP(1)/ENP(m)/ENT(m)/ENA(4)/EPR/EMP(5)/ENF(b)/EWA(1) P4-1 Pa-T/PI-T JO/IN UR/0170/64/000/007/0015/0019 ACCESSION NR: JUP5017239 AUTHOR: Gel'perin, N. I.; Aynahteyn, V. G.; Goykhman, I. E. TITLE: Range of existence of a fluidized bed SOURCE: Inghene mo-fizioheakiy zhurnal, no. 7, 1964, 15-19 ABSTRACT: The article considers the range of existence of fluidized beds on the basis of the range of the fluidized state as a function of particle size and the limiting polydispersion number as a function of the velocity of the fluidizing agent. The results are given as ratios of dimensionless qualities. A comparison is made between the highest allowable fuldication numbers and polydispersion numbers found in earlier papers and those obtained in the present study. Orig. art. has: 10 formulas, 3 graphs. ASSOCIATION: Institut tonkoy khimicheskoy tekhnologii im. M. V. Lommosova, Moscow (Institute of Precision Chemical Engineering)

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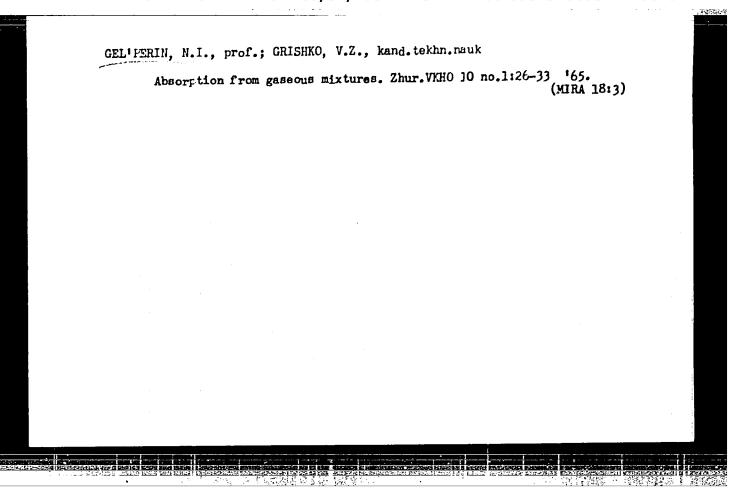
GEL'PERIN, N.I.; PEBALK, V.L.; ROZOV, V.N.; ZAMYSHLYAYEV, V.G.; MILOVANOVA, I.B.

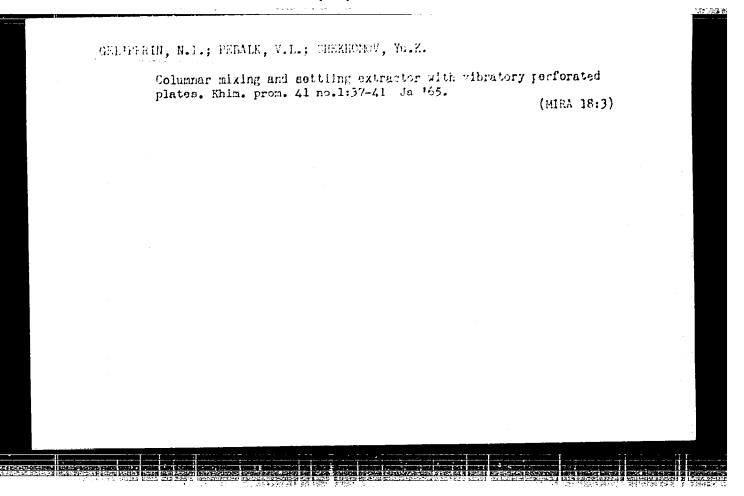
Extractive refining of a nickel electrolyte from iron and copper. TSvet. met. 37 no.9:19-22 S'64. (MIRA 18:7)

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学等其二字譯語 1與體計

理能等的電子發表





GELIPERIN, N.IT, prof.; PODGAYETSKAYA, O.I., kand.tekhr.neuk; DUBININ, M.F., Rand.tekhn.neuk

Latest in the technology of drying of polymeric materials.

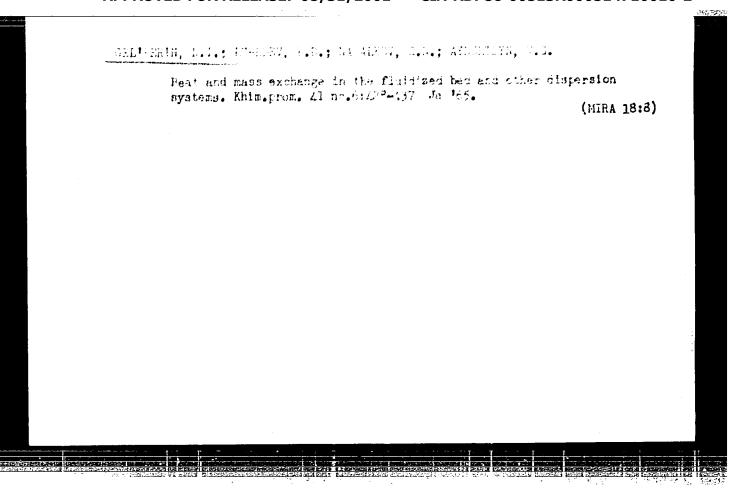
Zhur. VKHO 10 no.2:195-202 *65.

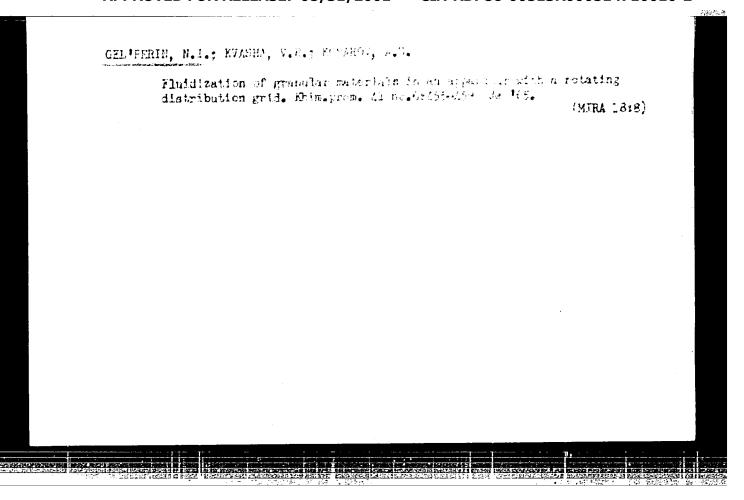
(MIRA 18:5)

PEBAIK, V.L 1 GEL'FERIN, N.1.; SHASHKOVA, M.N.; KUZNETSOVA, M.I.

Calculation of the processes of liquid extraction from ulticomponent solutions. Khim. prom. 41 no.3:212-217 Mr '65. (MIRA 18:7)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova.





GEL PERIN, N. f., dekter tekhn.nauk; PEBAIK, V.L., kand.tekhn.nauk; CHICHERINA, T.G., kand.tekhn.nauk; SHASHKOVA, M.H., inzh.

Horizontal multistage atomizing extractor. Thim. i neft. mashinostr. no.921-3 S 165. (MIRA 18:10)

GEL PERIN, N.I.; KOMISSAROVA, L.N.; YURCHENKO, L.D.; MIRONENKO, A.P.; KOROVIN, S.S.

Extraction of zirconium and hafnium from hydrochloric acid solutions by acetophenone. Izv. vys. ucheb. zav.; khim. i khim. tekh. 8 no.3:402-406 '65. (MIRA 18:10)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova, kafedra khimii i tekhnologii redkikh i rasseyannykh elementov.

GEL PERIN, N.I.; PEBALK, V.L.; ZAMYSHLYAYEV, V.G.; CHICHERINA, T.G.

Cylindrical mixer-sedimentation extractor. Zhur.VKHO 10 no.4:462-463 165. (MIRA 18:11)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V.Lomonosova.

	Calculation of the expansion of a layer in homogeneous fluidization. Zhur.VKHO 10 no.41475-477 165. (MIRA 18211) 1. Moskovskiy institut tonkoy khimicheskoy takhnologii imani M.V.Lomonosova.					

GEL'PERIN, N.I.; PEBALK, V.L.; ROZOV, V.N.; ZAMYSHLYAYEV, V.G.; SOKOLOVA, T.O.; MILOVANOVA, I.B.; YEPISHEVA, M.S.

Fractional reextraction of metals from complex metal scaps.

TSvet.met. 38 no.10:41-49 0 '65.

(MIRA 18:12)

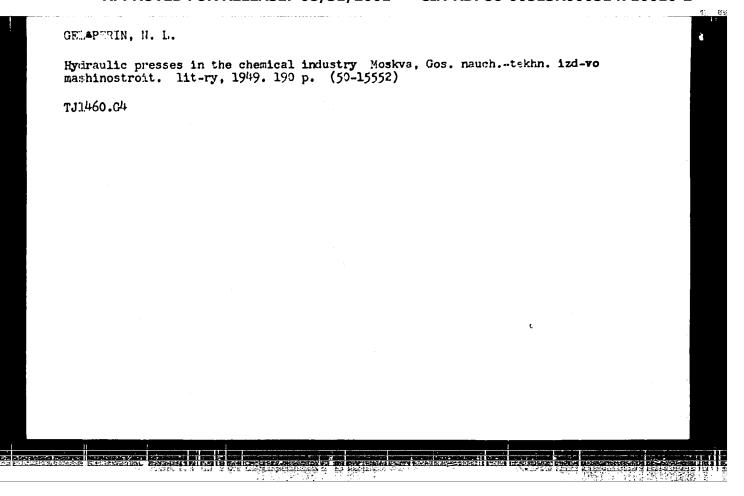
APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710010-2"

1 04963-01 EWT(m)/EWP(j) ACC NR: MP6006724 SOURCE CODE: UR/0303/66/000/001/0059/0063 Luchanskiy, L. N.; Gel'perin, N. I. AUTHOR: ORG: none TITLE: Study of the continuous film-azeotropic method of polyesterification in the synthesis of alkyd resins SOURCE: Lakokrasochnyye materialy 1 1kh primeneniye, no. 1, 1966, 59-63 TOPIC TAGS: polyester plastic, alkyd resin, esterification, varnish, azeotropic mixture ABSTRACT: The process of synthesis of glyptal resin No. 188 (TU INChP 1819-48) and pontaphthalic varnish No. 170 A (TU MKhP 4123-53) was invostigated. A column apparatus was used for the polyesterification. The latter was carried out in an inert solvent (xylene) which formed a heteroazeotropic mixture with water; the combination of conditions under which a liquid film was formed with azeotropic distillation of the water produced the most favorable conditions for the polyesterification reaction. The change in the acid number and viscosity of resin No. 188 was studied as a function of the feed rate and temperature. It is shown that in the synthesis of alkyd resins in a column apparatus by the film-azeotropic method, the decrease in the acid numbers of the esterification product occurs in a few minutes instead of the many hours required in an ordinary process, and that resin No. 188 can be produced in a rotor film-1/2 Card UDC: 667.661.1

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的第三人称形式 医克里氏 医克里氏

SUH CODE	07/	and 2 tables.	the polyesterification reaction is one of the most impor- continuous process of synthesis in a column unit. Orig. ables. none/ ORIG REF: 004/ OTH REF: 004					
DOI: COM	• 11/ SUB	M DATE: none/	ORIG REF	004/	OTH REF	004		
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"Production of Crank Shafts for Tractor and Harvestor Engines."								
All-Union Conference of Foundry Workers, end of 1957. Moscow. Mashinostroitel', 1958. No. 5, p. 48.								
Cand Seph Soi	NII Takh.	M.						

GEL'PERIM, N.V.; ZVOLINSIAYA, V.V.; PARPINOV, V.S.; SHERMAN, A.D.

Crankshaft founding procedure at the Vladimir Tractor Flant for IV-30 engines. Lit. proizv. no.10:15-16 · O '60. (Mika 13:10) (Vladimir--Founding) (Oranks and crankshafts)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000514710010-2

S/128/60/000/010/008/016/XX A033/A133

AUTHORS:

Gel'perin, N. V.; Zvolinskaya, V. V.; Parfenov, V. S., and

Sherman, A. D.

TITLE:

Technological process of casting crankshafts for the Δβ-30 (DV-30) engine at the Vladimorovskiy traktorny; zavod (Vladi-

mirov Tractor Plant)

PERIODICAL: Liteynoye prozvodstvo, no. 10, 1960, 16 - 17

TEXT: Based on the experience of the Khar'kov "Serp i molot" Plant, the Vladimirov Tractor Plant started the casting of crankshafts for the DV-30 engine. The authors enumerate the deficiencies occurring during the casting of the crankshaft for the CMA-7 (SMD-7) engine at the "Serp i molot" Plant and point out that the elimination of black spots by increasing the machining tolerances is not expedient; therefore, it is necessary to prevent the origination of black spots which can be attained by the desulfurization of the cast iron, bringing the S-content down to 0.008 - 0.00%. This is possible if the cast iron is smelted in a basic electric furnace. Attempts were made to eliminate the technical difficulties connected with the

Card 1/3

S/128/60/000/010/008/016/XX

Technological process of casting crankshafts... A033/A133

production of magnesium-modified cast iron by using other modifiers, like cerium, tellurium, calcium, strontium, lithium, etc. Tests proved cerium and foundry alloys on the base of cerium to be the most suitable modifiers. In comparison with magnesium, cerium offers the following advantages: no metal ejection during modification; the assimilability of cerium amounts to not less than 30%; lower sensitivity of the cast iron to demodifiers; insignificant cast iron temperature drop during the modification process (between 20 and 40°C); uniform distribution of sulfur over the casting and absence of black spots on its surface. In order to maintain a constant chemical cast iron composition during the investigations basic cast iron of the following chemical composition (in %) was smelted in a 3-ton acid electric furnace: 3.5 - 3.8 C; 2.0 - 2.2 Si; 0.8 - 1.0 Mn; not more than 0.04 S. Then this cast iron was remelted in a 50-kg capacity acid induction furnace. The metal was heated to 1,480 - 1,450°C, the modifiers (composition: 5 - 7% Mg, 10% Fe, 40 - 50% Ce, the rest rare earths) amounting to 0.4 - 0.35% of the liquid metal weight was put on the ladle bottom. To remove cementite formations and increase the mechanical properties, the past iron was subject ed to additional modification by 0.3 - 0.4% Cm (Si) 75 ferrosilicium. After two minutes holding in the ladle the metal was poured into the crankshaft

Card 2/3

S/128/60/000/010/008/016/XX

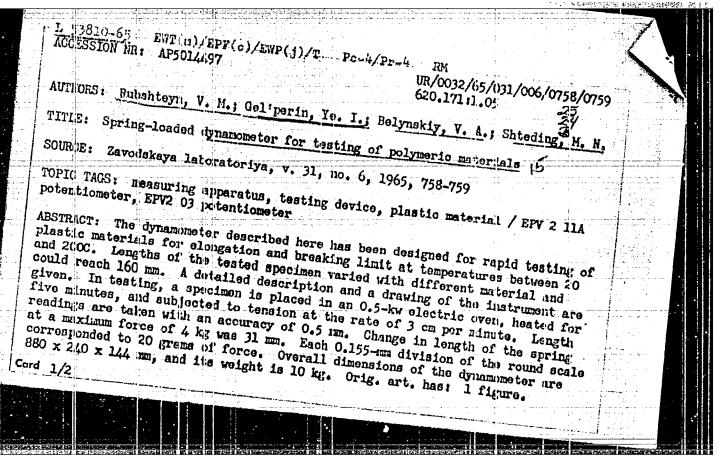
Technological process of casting crankshafts... A033/A133

shell molds. Besides, specimens were cast to determine the macro- and microstructure and the mechanical properties. Table 1 shows the results obtained. The sand-resin mixture was prepared in a mixer of NIILITMASh design, model 821, the shell mold was made on a model 830 machine of NIILITMASh design. The cast crankshaft structure contained ledeburite cementite. The crankshafts were annealed as to the following conditions: holding at 950°C for 2 - 5 hours, cooling in the furnace to 630°C, holding at 630°C for 1 hour, cooling in the furnace to 450°C, further cooling in the air. In comparison to die-forged crankshafts 22 kg metal were saved with each cast crankshaft. The economic effect amounts to 15% of the crankshaft cost price. There are 4 figures, 2 tables and 4 Soviet-bloc references.

Card 3/3

GKL*PERIN, V.1., doktor tekhn. nauk; AYNSHTEYN, V.G., kand. tekhn. nauk; GOYKHMAN, I.D., inzh.

Speed of the beginning of fluidization and the expansion of a fluidized bed in the find of centrifugal forces. Khim. i. neft. mashinostr. no.5s18-22 N *64 (MIRA 18s2)



"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710010-2

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Karpeva (Sci	eritific Res	arch Instit	encl: 00	Chemistry)	SUB CODE:		
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Å							

15 8510 1

5/191/62/00n/010/007/010 B101/B186

AUTHORS:

Shcherbakov, V. M., Mazur, S. V., Solomon, Kh. V., Gel perina,

V. ...

TITLE:

and high temperatures effects on the physicomechanical

properties of glass-reinforced plastics

PERIOJICALI

Plasticheskiye massy, no. 10, 1962, 37 - 43

TEXT: The authors examined glass-reinforced plastics of E ϕ -2 (BF-2) phenol resin, epoxy resin or cold-setting or thermo-setting Π H-1 (PN-1) polyester resin with $T_1(T_1)$ glass fabric, satin glass fabric no. 8/3, or glass mats

with the ratio warp; filling = 1: 1.5 as a filler, produced by vacuam, press, or contact techniques, with thicknesses of 3, 6, or 10 mm. Up to 120 days the samples were kept in water so as to test its effect on them, then their bending strength was studied according to FOCT 4648-56 (GOST 4648-56). Results: After 90 days, the drop in bending modulus of polyester and phenol remin was ~50 - 60%, that of epoxy resin ~15 - 19%. The Gard 1/3

3/191/62/000/010/007/010 B101/B186

Strength of glass reinforced ...

effect of vator is explained by its penetration into microcracks, especially liable to form in regine with poor adhesion to glass. The greatest drop in bending modulus occurs within the first 30 days. By keeping the samples in air for 14 days, their bending modulus restores by ~22 - 56%. Its determination is discussed, and the method by R. E. Chambers and E. I. recommended. Pretreatment of T, glass fabric with organisation compounds such as limid or gaseous visyl trichloro silane, polyvinyl siloxane resin, vinyl triethyl silane, commercial PBC-9 (GVS-9) or 9-1 preparations improves its resistivity to water. Vinyl triethoxy silane may be added to polyester remin (3 - 5%) directly. Atmospheric influences were examined by keeping BF-2 and T samples 20 months on the ground in the open air, but the effects were not classified under individual factors such as UV light, humidity, temperature, etc. The tensile strength and impact strength remained unchanged sherens the bending modulus showed a reduction of 11.5 - 23.4%. Short-period heating at 350 - 400°C for 1 - 2 min did not affect the strength, and in some samples the bending modulus was thereby even increased. Hence additional thermal treatment is recommended for such glass reinforced plastics as are to be used at high temperatures. Special techniques Card 2/3

Strength of class reinforced ...

3/191/62/000/010/007/010 B101/B186

for testing glass reinforced plastics at high temperatures, making allowance for the size of specimen, heating rate, and other conditions, are deemed necessary. There are 4 figures and 5 tables.

√B

Card 3/3

CHERNYSHEV, Ye.A.; VANGNITS, Ye.V.; GEL'PERINA, V.M.; FETROV, A.D.

Synthesis of bis(organochlorosilyl) derivatives of aromatic

hydrocarbons and tris (trichlorosily1) benzene. Zzv. AN SSSR. Ser. khim. no.10:1807-1814 0 '64. (MIRA 17:12)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

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L 7887-66 EWT(m)/EPF(c)/EWP(j)/T/EWP(t)/EWP(b) IJP(c) RM/JD

ACC NR: AP5025042 \(\lambda'\) SOURCE CODE: UR/0286/65/000/016/0085/0085

AUTHORS: Pakhomov, V. I.; Andrianov, K. A.; Gel perina, V. H.

ORG: none

TITIE: Method for obtaining silicon-organic compounds containing the chain silicon-divalent organic radical-silicon. Class 39, No. 173954

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 85

TOPIC TAGS: organosilicon compound, polymerization, polymer, monomer

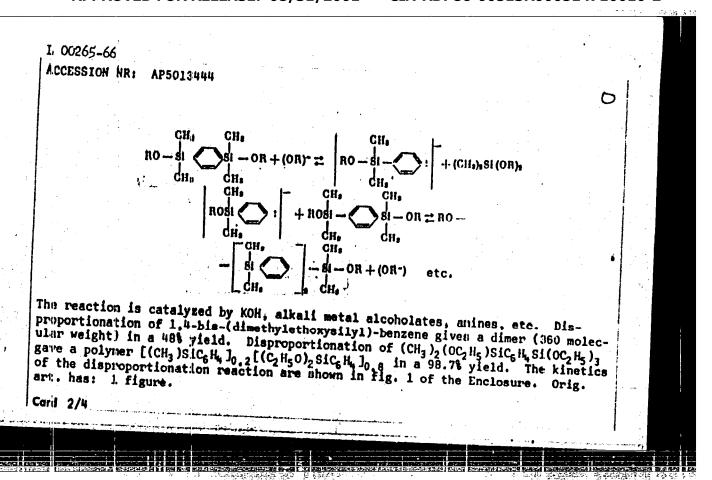
ABSTRACT: This Author Certificate presents a method for obtaining siliconorganic compounds containing the chain silicon-divalent organic radical-silicon,
by treating silicon-organic monomers. To simplify the process and to increase the
yield of rolymer silphenyl monomers containing an alkyl group and more than one
alkoxy group at each silicon atom are used as starting reagents. The disproportionation of the monomers is carried out at or above 2000 in the presence of
alkali catalysts.

SUB CODE: 07/ SUBM DATE: 13Jun64

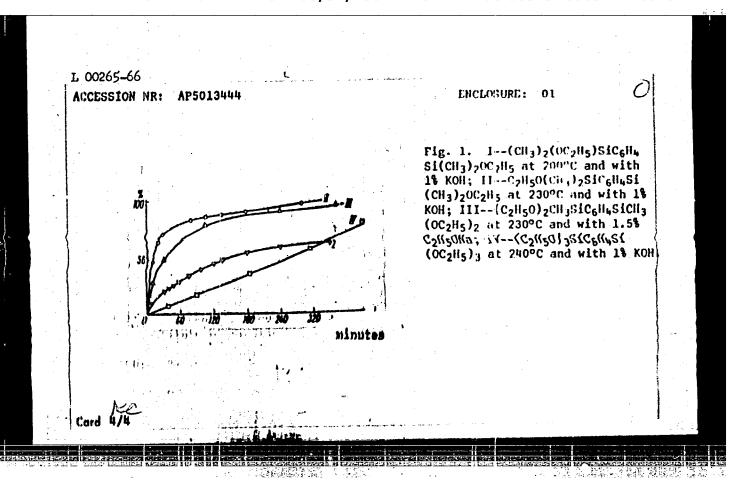
Card 1/1

UDC: 678.84

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L 00265-66 EPF(c)/EVP(j)/EVT(m)/T RM ACCESSION NR: AP5013444		
11 25	UR/0020/65/162/001/0079	/0081
MUTHOR: Andrianov, K. A. (Academician); Pak	homov. V. T. Carre	14:53 22
TITLE: Disproportion receive	Gel perina, V.	H. /9
TITLE: Disproportion reaction a new method mers. Synthesis of polyphenylenesilanes	of synthesis of silicoorgani	c poly-
	. 76	- 1-29
BOURCE: AN SSSR. Doklady, v. 162, no. 1, 1	965, 79-81	
mesilane silicon reaction, silicon	rganic polymer, synthesis, po	lyphenyla
STRACT: Base ont-1		
STRACT: Base catalyzed disproportionation	of several bis-(dimethylacha)	
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STRACT: Base catalyzed disproportionation enzenes is studied in an attempt to find new henylenes lanes. The ionic mechanism of thi	of several bis-(dimethylacha)	



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ASSOCIATION: Nauchno-issledovatel skiy institut plasticheskikh mass (Scientific Research Institute of Plastics)					
Si	UBMITTED: 14Ju164	ENCL: 01	SUB CODE: GC, OC		
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HR TONE

ACC NR: AP6031157

1, 15135-37

2.
$$110\begin{pmatrix} CH_3 & CH_4 \\ SI & -SI - O \\ CH_4 & CH_5 \end{pmatrix} - \begin{pmatrix} CH_4 \\ SI - O \\ CH_5 \end{pmatrix} 11$$

The destruction of n-bis-(dimethylhydroxysilyl)phenylene was found to proceed much faster above 490C. Copolymers of 1, 4-bis(dimethylhydroxysilyl)phenylene with octamethylcyclotetrasiloxane were found to form as a result of polycondensation as well as polymerization with opening of octamethylcyclotetrasiloxane. The polycondensation of compounds was studied at various ratios. Orig. art. has: 2 tables and 5 figures. [Based on authors abstract]

SUB CODE: 07/ SUBM DATE: 23Jul65/ ORIG REF: 001/ OTH REF: 005/

Card 2/2 del

GEL'RUD, Samuil Markovich; ZARUBINA, Alla Georgiyevna; PODBOLOTOV,
Vasiliy Vasil'yevich; KUDRYASHOV, R., otv. red.; SHATROVA, T.,
red. izd-va; LEBEDEV, A., tekhm. red.

[Collection of problems on the state budget] Sbornik zadach po gosudarstvennomu biudzhetu. Moskva, Gosfinizdat, 1961. 94 p.

(Budget)

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20200

10.9230

2808, 1418, 1413

5/042/61/027/003/020/025 B101/E203

AUTHORS:

Geminov, Y. N. and Koplyev, I W.

TITLL.

Universely the high strength of thin metallic filaments

PERICHICAL: Zavelskaya laboratoriya, v. 2., no. 5. 1961, 334-335

TEXT: On the backs of available experimental and theoretical data, the authors make assumptions on the nature of the strength of thin metallic filaments. They study the strongth of metal microcrystals with diameters from 20:30 to down to thousandth parts of a micron. Experiments showed that the atrength of comparatively thick filaments (5 - 20 m and more) did not differ from the atrength of large offstals, then, from the values known in industry. In this metallic filaments (10.4 and less), however, the strength increases, and may attain the theoretical strength of metal. Three hypotheses are miscussed: 1) Effect of the surface tension. This hypothesis is refused since calculations have shown that the surface tension increases the strength of a crystal nich sattly only in the case of thicknesses of some tenths of a misture 2) high density of dislocations. This hypothesis, too, cannot be accepted because a) a very even distri-Card 1/3

20200

Causes of the high strength of the

\$/032/61/027/003/020/025 B101/B203

bution of dializations would have to exist since the slightest inhomogeneity causes a weakening of the metal, and b) the X-may investigations showed that the lattice of thin metallic filaments was more perfect than that of massive prystale . 3) Great perfection of the lattice of the metallic filament. This assumption corresponds beet to experimental data. Experiments by the authors and by foreign repearchers showed that only metallic filements up to dismetors of 10 1/4 had a perfectly homogeneous cross section. Thicker filaments solvet a laminated structure. The number of dislocations increases with increasing filament diameter. In this case, other defects such as pi's and imparatives occur, which mainly affect the surface. This led the authors to the assumption that the strength of metallic filaments depended on the size of their surface only. With the same surface, the strength ind not depend on the diameter. Experiments (Fig.) confirmed this assumption. The dependence of strength on the surface applies more universally than the Encen dependence on the diameter and the decrease in garength with indecising length as stated earlier by the attnors. This is explained by statistical factors which are also responsible for the spread of measured values. Crystals with

Card 2/3

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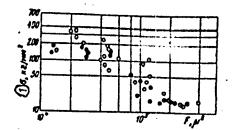
Causes of the high strength of ...

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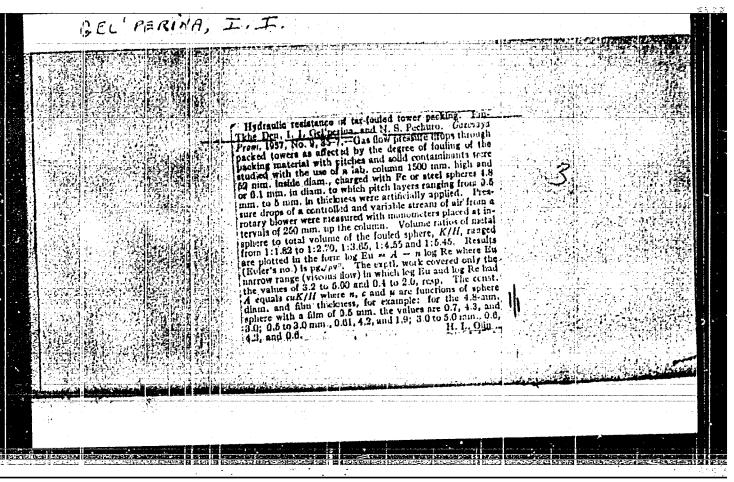
diameters of 20 - 30 A and more should be excluded from the study of superstrong metal because of their laminated structure. It is further stated that the size factor of thin metallic filaments is of quite different nature from that of larger objects so that data cannot be compared with each other. There is 1 figure.

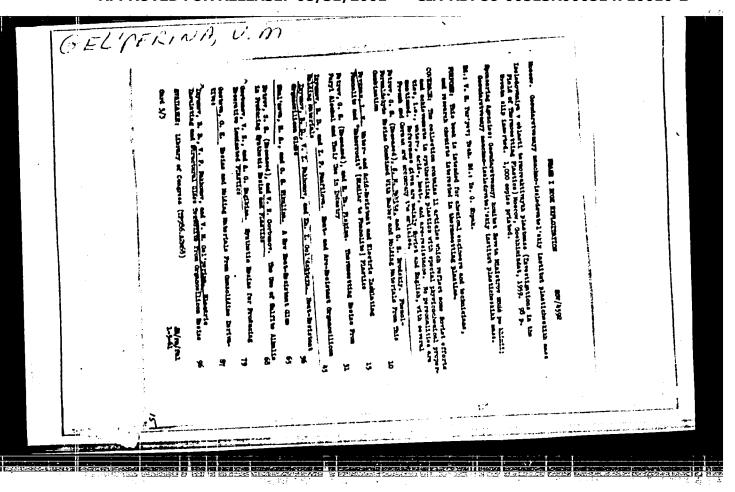
ASSOCIATION: Institut metallurgii im. A. A. Baykova Akademii nauk SSSR (Institute of Metallurgy imeni A. A. Baykov of the Academy of Sciences USSR)

Legend to the figure: o: $l = 2 \text{ mm}; \text{ e: } d = 6.5 \mu;$ 1) σ , kg/mm^2 .



Card 3/3





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ENT(m)/EPF(c)/ENP(j)/T Po-Li/Pr-Li L 24837-65

ACCESSION NR: AP4047396

S/0062/64/000/010/1807/1814₀₀

Cherny*shev, Ye. A.; Vangnits, Ye. V.; Gel'perina, V. M. AUTHOR: Petrov, A. D.

TITLE: Synthesis of bis(organochlorosilyl)derivatives of aromatic hydrocarbons

and tris(trichlorosilyl)benzene

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 10, 1964, 1807-1814

TOPIC TAGS: benzene, benzene derivative, synthesis, high temperature condensation, disproportionation reaction, exchange reaction

ABSTRACT: The high temperature condensation method described by Ye. A. Cherny*shev, V. F. Minorov and A. D. Petrov (Izv. AN SSSR. Otd. khim. n. 1960, 2147), wherein the reactants were contacted for about 30 seconds at about 580°C, was utilized in the synthesis of a series of p-bis(organochlorosilyl)benzenes and of tris(trichlorosilyl)benzene. Disproportionation reactions did not occur in these gaseous reactions between the organochlorosilyl benzenes and chlorosilanes; only the silyl groups were exchanged. Hence pure bis(organodichlorosilyl)ben-Card1/3

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ACCESSION NR: AP4047396

zenes were synthesized:

 $\begin{array}{l} p\text{-}\mathrm{CH_3Cl_2SiC_6H_4Cl} + \mathrm{CH_2SiHCl_2} \rightarrow p\text{-}\mathrm{CH_3Cl_2SiC_6H_4SiCl_2CH_2} + \mathrm{HCl}; \\ p\text{-}\mathrm{C_6H_5Cl_2SiC_6H_4Cl} + \mathrm{C_6H_5SiHCl_2} \rightarrow \\ - p\text{-}\mathrm{C_6H_5Cl_2SiC_6H_4SiCl_2C_6H_5} + \mathrm{HCl} \end{array}$

Gas phase condensation theoretically would not result in the synthesis of pure bis-salyl benzene derivatives having different methyldichlorosilyl and trichlorosilyl groups on one benzene ring. But compounds with different organochlorosilyl groups were separated by their differences in boiling temperatures, e.g., in the following synthesis:

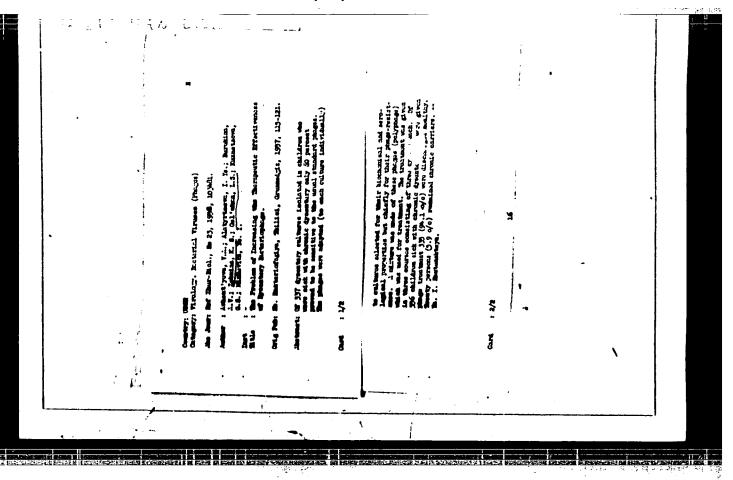
p-C₄H₃Cl₂SiC₄H₄Cl + CH₃SiHCl₂ + p-C₄H₃Cl₂SiC₄H₄SiCl₁CH₄ p-C₄H₃Cl₂SiC₄H₄Cl + HSiCl₃ + p-C₄H₃Cl₂SiC₄H₄SiCl₃

High temperature condensation of a four-fold excess of trichlors lane with a mixture of dichlorphenyltrichlorosilane isomers gave a 13.5% yield of tris(trichlorosily)) benzene which was methlated to tris(trimethylsily)) benzene. The physical properties of the investigated compounds are tabulated. Orig. art. has: 1 table,

Cord 2/3

L 2h8:7-65
ACCESSION NR: AP4047396

1 figure and 10 equations
ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry, Academy of Sciences SSSR)
SUBMITTED: 21Jan63 ENCL: 00
SUB CODE: GC, OC NO REF SCV: 003 OTHER: 002



8(.

·S/025/60/000/03/016/045 D048/D002

AUTHOR:

Gel'shteyn, A. (Leningrad)

TITLE:

With Academician Kostenko

PERIODICAL:

Nauka i zhizn', 1960, Nr 3, pp 42 - 43 (USSR)

ABSTRACT:

The author reports on the professional career and the work of the 70 year old prominent Soviet powerengineer, Lenin prize laureate, Academician Mikhail Poliyevktovich Kostenko, who took part in the development of all basic types of electric machines produced in the Soviet Union. He worked out the theory of the so-called synchronous twist and wrote many scientific papers. About 25 years ago he published the book "Kollektornyye mashiny" (Collector Machines). The Stalin prize was twice awarded to him. For more than 30 years Kostenko has headed the Department of Electric Machines in the Politekhnicheskiy institut imeni M.I. Kalinina (Polytechnical Institute imeni

Card 1/3

M.I. Kalinin) in Leningrad where he trained more

S/025/60/000/03/016/045 D048/D002

With Academician Kostenko

than 400 engineers. For many years he has led the allfactory research office of the Zavod "Elektrosila" ("Elektrosila" Plant) and is a member of the plant's technical council. Furthermore, he acts as Chief electrician of the Khar'kovskiy elektromekhanicheskiy zavod (Khar'kov Electro-Mechanical Plant). Tszin'-De, lecturer for power-engineering in Shanghai is mentioned as one of Kostenko's pupils. The author reports on a visit paid Academician Kostenko at the Institut elektromekhaniki Akademii nauk SSSR (Institute for Electromechanics of the AS USSR) of which he is the head. At Kostenko's laboratory, a miniature model of the Stalingradskaya GES (Stalingrad Hydro-electric Plant) is erected. In this connection, the author mentions that the Stalingrad GES will deliver a.c. to Moscow and d.c. to the Donbass. He refers to Professor Venikov of the Moskovskiy

Card 2/3

S/025/60/000/03/016/045 D048/D002

With Academician Kostenko

energeticheskiy institut (Moscow Power Institute) who together with Kostenko worked out the pattern method which will be widely used in the electrification of the main lines of the RR of the country. A photo shows M.P. Kostenko. There is 1 photograph.

Card 3/3

AUTHORS:

Gel' Sahteyn, A.I., Temkin, M.I.

76-12-14/27

TITLE:

Kinetics of the Chemical Interaction of Ethylene and Propylene with Sulfuric Acid (Kinetika khimicheskogo vzaimodeystviya etilena i

propilena s sernoy kislotoy)

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1957, Vol. 31, Nr 12, pp. 2697-2705 (USSR)

ABSTRACT:

The kinetics of reaction with the absorption of ethylene and propylene by sulfuric acid in the diffusion range was investigated here. The velocity of olefin absorption by the immovable liquid layer of great thickness under the constant pressure of the absorbing gas was measured. The problem investigated here can be formulated as follows: a gas dissolves in an immovable liquid and enters into reaction with the same, taking place at a velocity proportional to the concentration. The term which connects the observed speed of absorption with the constants of velocity of the chemical reaction is looked for. It is assumed that the absorption takes place with a great liquid excess. The reaction velocity between gas and liquid can therefore be expressed by an equation of first order. Further, it is assumed that the equilibrium between the gas phase and the liquid layer immediately adjacent to it sets suddenly and follows Henry's law. Provided that the thickness of the liquid

Card 1/3